

**SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU)**  
**PRE - PRIMARY LEAVING EXAMINATION SET I, 2024**



**MATHEMATICS**

**Time Allowed: 2 Hours 30 Minutes**

EMIS NO	PERSONAL NO

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Name: \_\_\_\_\_

District Name: \_\_\_\_\_

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

Read the instructions carefully:

1. This paper is made up of Sections A and B.
2. Section A has 20 short-answer questions. (40 marks)
3. Section B has 12 questions. (60 marks)
4. Answer All questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be read may lead to loss of marks.
8. Do not fill anything in the box indicated

**For Examiners' Use Only.**

**FOR EXAMINERS' USE  
ONLY**

Qn. No.	MARKS	Final Mark
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

**Turn Over**

## SECTION A: ( 40 MARKS)

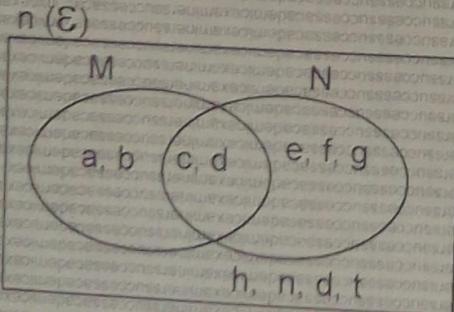
Questions 1 to 20 carry two marks each.

1. Work out:  $23 + 42$

2. Round off 4356 to the nearest tens.

3. Simplify:  $5m^3 \times 3m^2$

Use the Venn diagram below to answer question 4.



4. Find  $n(M \cup N)$

5. Work out:  $\frac{3}{4} \div 1\frac{1}{2}$

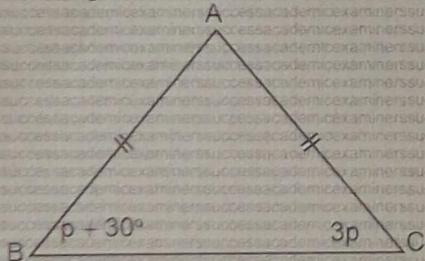
6. Given that  $\square$  stand for 40 apples, how many apples are represented by  $\square \square \square \square$ ?

7. Find the next number in the sequence below.

0, 1, 5, 14, 30, \_\_\_\_\_

8. The mass of an object is 0.56Kg. Express this weight in grammes.

9. The figure below is an Isosceles triangle. Find angle ABC.



10. The median of 5 consecutive integers is -1. Find the integers.

11. By selling a dress, at sh. 18,000, a trader made a loss of sh. 2,000. Calculate his percentage loss.

12. Work out  $0.25 \times 0.3$ .

13. A forty - minute lesson ended at 1.20 p.m. At what time did it start?

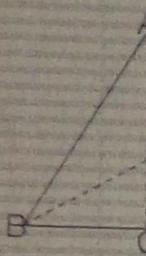
14. The distance around a circular piece of land is 44 metres. Calculate its diameter.

15. The mean of 4, 5, 3 and  $y$  is 4. Find the value of  $y$ .

16. Given that  $\{2_1, 2_2, 3_1, 3_2\}$  and  $y = \{2_1, 2_2, 2_3, 3_1\}$  Find the G.C.F of  $p$  and  $y$ .

17. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $22.5^\circ$ .

18. A car uses 6 litres of petrol every day. How many  $\frac{1}{4}$  litre bottles of petrol does the car use in the day?
19. ABC is a triangle. AC and BE are heights of the same triangle.  $BD = 12\text{cm}$ ,  $AC = 10\text{cm}$ .  $BE = 8\text{cm}$ . Find the length of AD.

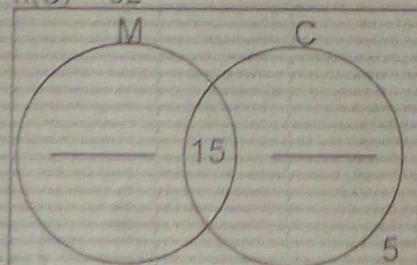


20. Atimas withdrew a bundle of one thousand shilling notes from the bank. If the last note Identification number was PW 4688448, find the Identification number of the first note.

### SECTION B.

21. A P.7 picnic of 52 candidates. 25 ate meat(M),  $(x + 20)$  ate chicken(C), 15 ate both meat and chicken while 5 did not eat either of the sauce.

- a) Use the given information to complete the Venn diagram below. (2 marks)  
 $n(\Sigma) = 52$



- b) Solve for the value of X. (2 marks)

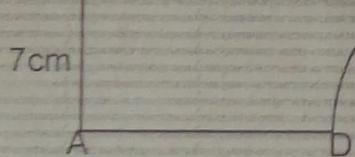
- c) Find the probability that a guest who was picked at random did not eat chicken. (1 mark)

22. a) The place value of 8 in a numeral is hundredths. What is its value? (2 marks)

- b) Find the expanded number below. (2 marks)  
 $(9 \times 100) + (5 \times 10) + (3 \times 0.1) + (4 \times 0.01)$

23. Study the figure below and answer the questions that follow.

- a) Find the length of BCD. (2 marks)



- b) Work out the area of the figure above. (3 marks)

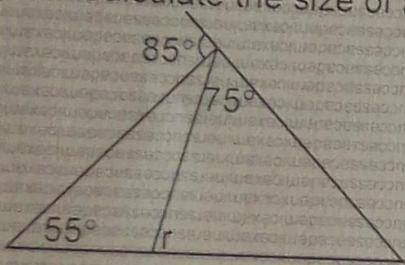
24. A car traveling at 100 km/hr takes 3 hours 36 minutes to travel from village X to village Y.

- a) Find the distance from Village X to Village Y. (2 marks)

- b) If the driver starts his journey from village y at 2:00 p.m. at which speed must he drive to reach village X at 6:00 p.m without stopping. (3 marks)

25. a) Find the number of sides of a regular polygon that has 12 right angles (2 marks)

b) Calculate the size of angle  $r$  in the diagram below. (3 marks)



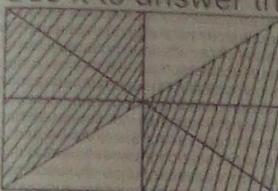
26 Nakato rolled a wire of 1100m round a circular log of radius 7dm. In how many revolutions was the wire rolled? (4 marks)

27. a) Solve for p:  $\frac{3}{P+2} = \frac{2}{2P-2}$  (3 marks)

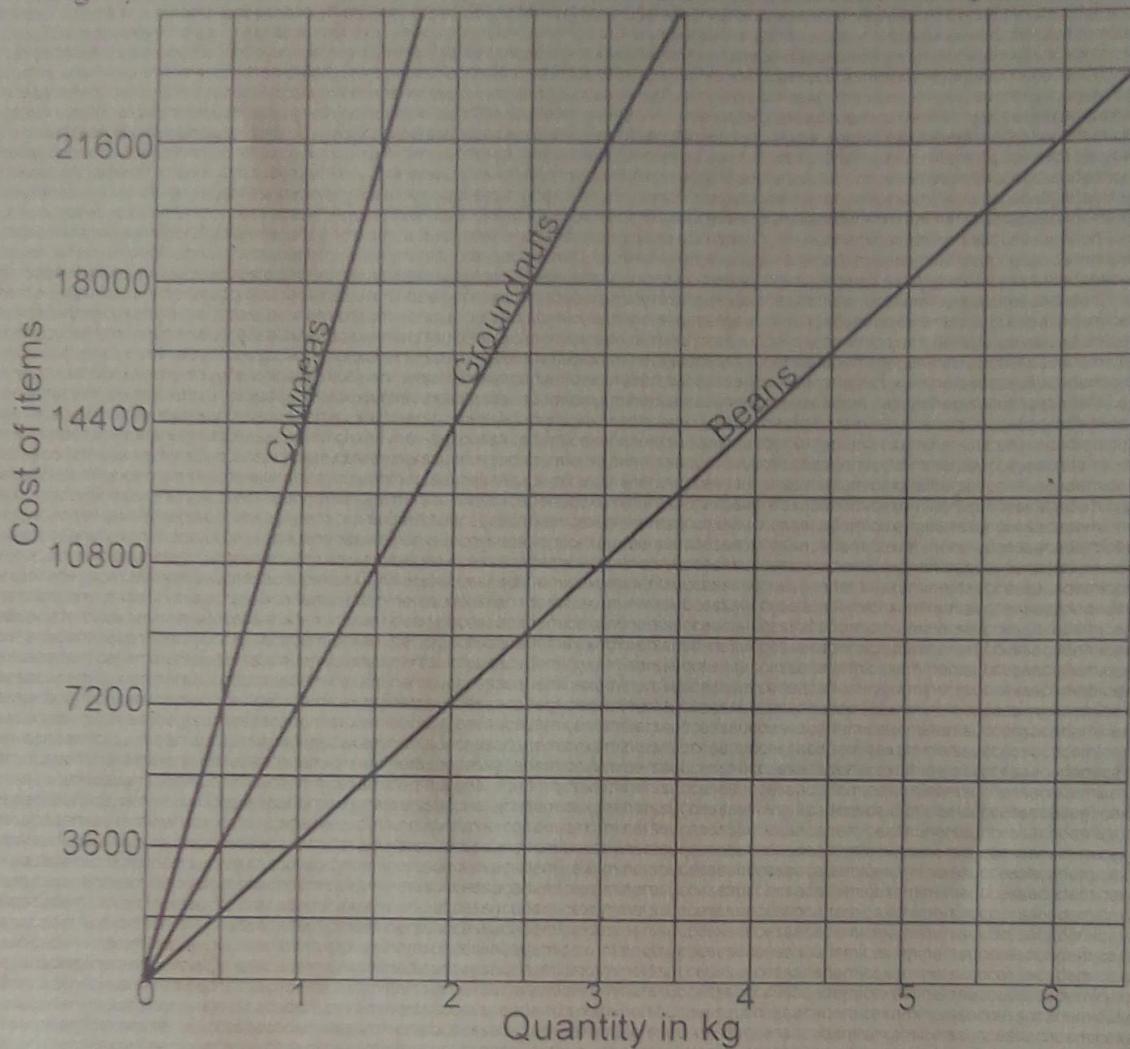
b) Solve and find the solution set for  $-2k + 3 \leq 9$  (3 marks)

28. a) Using a ruler, a pencil and pair of compasses only, construct a square inside the circle of radius 4 cm. (4 marks)

b) Find the area of square formed. (1 mark)

29. The shaded part in the figure below shows the number of girls in the school. Use it to answer the questions that follow.
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- a) Find the percentage of the boys in the school. (2 marks)
- b) If the school has 500 boys, How many girls are in the school? (3 marks)
30. a) The least number of books that can be divided by either 18 or n leaving 4 as a remainder is 40. The GCF of 18 and n is 6. Find the value of n. (3 marks)
- b) Express 140 as a product of its prime factor. (2 marks)
31. The average weight of four boys is 56 kg. When two other boys join the group, the average weight becomes 52 kg. The sixth boy is 8kg heavier than the fifth boy. Find the weight of the sixth boy. (6 marks)

32. The graph below shows the cost of different items in Mr. Mutyaba's shop.



- a) What is the most expensive item on the graph? (1 mark)
- b) What is the total cost of  $2\frac{1}{2}$  kg of beans and 2kg of groundnuts (2 marks)
- c) Musa bought 750g of cowpeas and 1,500g of beans. How much did he pay? (2 marks)